

SEQUENCE LISTING

<110> CHOO, Qui-Lim
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<120> METHODS AND REAGENTS FOR TREATING, PREVENTING AND DIAGNOSING
BUNYAVIRUS INFECTION

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<140> US 10/580,050

<141> 2006-05-19

<150> PCT/US04/039333

<151> 2004-11-19

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<170> PatentIn version 3.3

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Lys Thr Glu Ala Arg Tyr Val Arg Asn Ala Thr Gly Val Phe Ser Asn
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Asn Val Ala Ile Arg Lys Trp Leu Val Ser Asp Trp His Asp Cys Arg
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Pro Lys Lys Ile Val Gly Gly His Ile Asn Val Ile Glu Val Gly Asp
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Asp Leu Ser Leu His Thr Glu Ser Tyr Val Cys Ser Ala Asp Cys Thr
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His Met Ser Cys Val Arg Phe Leu His Arg Thr Ile Leu Pro Gly Ser
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<211> 2263
<212> PRT
<213> La Crosse virus

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20          25          30

Arg His Asp Tyr Phe Gly Arg Glu Leu Cys Lys Ser Leu Asn Ile Glu

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Glu	Val	Asp	Pro	Leu	Thr	Ile	Asp	Ala	Pro	His	Ile	Thr	Pro	Asp	Asn
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Tyr	Leu	Tyr	Ile	Asn	Asn	Val	Leu	Tyr	Ile	Ile	Asp	Tyr	Lys	Val	Ser
				85					90					95	
Val	Ser	Asn	Glu	Ser	Ser	Val	Ile	Thr	Tyr	Asp	Lys	Tyr	Tyr	Glu	Leu
			100					105					110		
Thr	Arg	Asp	Ile	Ser	Asp	Arg	Leu	Ser	Ile	Pro	Ile	Glu	Ile	Val	Ile
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Val	Arg	Ile	Asp	Pro	Val	Ser	Lys	Asp	Leu	His	Ile	Asn	Ser	Asp	Arg
	130						135					140			
Phe	Lys	Glu	Leu	Tyr	Pro	Thr	Ile	Val	Val	Asp	Ile	Asn	Phe	Asn	Gln
145							150				155				160
Phe	Phe	Asp	Leu	Lys	Gln	Leu	Leu	Tyr	Glu	Lys	Phe	Gly	Asp	Asp	Glu
				165					170					175	
Glu	Phe	Leu	Leu	Lys	Val	Ala	His	Gly	Asp	Phe	Thr	Leu	Thr	Ala	Pro
			180					185					190		
Trp	Cys	Lys	Thr	Gly	Cys	Pro	Glu	Phe	Trp	Lys	His	Pro	Ile	Tyr	Lys
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Glu	Phe	Lys	Met	Ser	Met	Pro	Val	Pro	Glu	Arg	Arg	Leu	Phe	Glu	Glu
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Ser	Val	Lys	Phe	Asn	Ala	Tyr	Glu	Ser	Glu	Arg	Trp	Asn	Thr	Asn	Leu
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Val	Lys	Ile	Arg	Glu	Tyr	Thr	Lys	Lys	Asp	Tyr	Ser	Glu	His	Ile	Ser
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Thr	Phe	Lys	Leu	Ile	Leu	Leu	Ser	Lys	Ser	Leu	Gln	Ser	Ile	Lys	Gly
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Ile	Gly	Asp	Lys	Ala	Ile	Glu	Tyr	Glu	Glu	Phe	Cys	Met	Ser	Leu	Lys	355	360	365	
Ser	Lys	Ala	Arg	Ser	Ser	Trp	Lys	Gln	Ile	Met	Asn	Lys	Lys	Leu	Glu	370	375	380	
Pro	Lys	Gln	Ile	Asn	Asn	Ala	Leu	Val	Leu	Trp	Glu	Gln	Gln	Phe	Met	385	390	395	400
Val	Asn	Asn	Asp	Leu	Ile	Asp	Lys	Ser	Glu	Lys	Leu	Lys	Leu	Phe	Lys	405	410	415	
Asn	Phe	Cys	Gly	Ile	Gly	Lys	His	Lys	Gln	Phe	Lys	Asn	Lys	Met	Leu	420	425	430	
Glu	Asp	Leu	Glu	Val	Ser	Lys	Pro	Lys	Ile	Leu	Asp	Phe	Asp	Asp	Ala	435	440	445	
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Phe	Gly	Ser	Lys	Ile	Lys	Asp	Ala	Asn	Lys	Glu	Thr	Tyr	Asp	Asn	Met	485	490	495	
His	Lys	Ile	Phe	Glu	Thr	Arg	Tyr	Trp	Gln	Cys	Ile	Ser	Asp	Phe	Ser	500	505	510	
Thr	Leu	Met	Lys	Asn	Ile	Leu	Ser	Val	Ser	Gln	Tyr	Asn	Arg	His	Asn	515	520	525	
Thr	Phe	Arg	Ile	Ala	Met	Cys	Ala	Asn	Asn	Asn	Val	Phe	Ala	Ile	Val	530	535	540	
Phe	Pro	Ser	Ala	Asp	Ile	Lys	Thr	Lys	Lys	Ala	Thr	Val	Val	Tyr	Ser	545	550	555	560
Ile	Ile	Val	Leu	His	Lys	Glu	Glu	Glu	Asn	Ile	Phe	Asn	Pro	Gly	Cys	565	570	575	
Leu	His	Gly	Thr	Phe	Lys	Cys	Met	Asn	Gly	Tyr	Ile	Ser	Ile	Ser	Arg	580	585	590	
Ala	Ile	Arg	Leu	Asp	Lys	Glu	Arg	Cys	Gln	Arg	Ile	Val	Ser	Ser	Pro	595	600	605	
Gly	Leu	Phe	Leu	Thr	Thr	Cys	Leu	Leu	Phe	Lys	His	Asp	Asn	Pro	Thr	610	615	620	

Leu	Val	Met	Ser	Asp	Ile	Met	Asn	Phe	Ser	Ile	Tyr	Thr	Ser	Leu	Ser	
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				645					650					655		
Met	Asn	Ser	Leu	Ala	Ile	Ser	Ser	Asn	Val	Lys	Asp	Tyr	Ile	Ala	Glu	
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Lys	Phe	Ser	Pro	Tyr	Thr	Lys	Thr	Leu	Phe	Ser	Val	Tyr	Met	Thr	Arg	
		675					680					685				
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690						695					700					
Gln	Leu	Arg	Asp	Ile	Tyr	Leu	Ser	Asp	Tyr	Asp	Ile	Thr	Gln	Lys	Gly	
705					710					715					720	
Ile	Lys	Asp	Asn	Arg	Glu	Leu	Thr	Ser	Ile	Trp	Phe	Pro	Gly	Ser	Val	
			725						730					735		
Thr	Leu	Lys	Glu	Tyr	Leu	Thr	Gln	Ile	Tyr	Leu	Pro	Phe	Tyr	Phe	Asn	
			740					745					750			
Ala	Lys	Gly	Leu	His	Glu	Lys	His	His	Val	Met	Val	Asp	Leu	Ala	Lys	
		755					760					765				
Thr	Ile	Leu	Glu	Ile	Glu	Cys	Glu	Gln	Arg	Glu	Asn	Ile	Lys	Glu	Ile	
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Trp	Ser	Thr	Asn	Cys	Thr	Lys	Gln	Thr	Val	Asn	Leu	Lys	Ile	Leu	Ile	
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His	Ser	Leu	Cys	Lys	Asn	Leu	Leu	Ala	Asp	Thr	Ser	Arg	His	Asn	His	
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Leu	Arg	Asn	Arg	Ile	Glu	Asn	Arg	Asn	Asn	Phe	Arg	Arg	Ser	Ile	Thr	
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Thr	Ile	Ser	Thr	Phe	Thr	Ser	Ser	Lys	Ser	Cys	Leu	Lys	Ile	Gly	Asp	
		835					840					845				
Phe	Arg	Lys	Glu	Lys	Glu	Leu	Gln	Ser	Val	Lys	Gln	Lys	Lys	Ile	Leu	
	850					855					860					
Glu	Val	Gln	Ser	Arg	Lys	Met	Arg	Leu	Ala	Asn	Pro	Met	Phe	Val	Thr	
865					870					875					880	
Asp	Glu	Gln	Val	Cys	Leu	Glu	Val	Gly	His	Cys	Asn	Tyr	Glu	Met	Leu	
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Arg	Asn	Ala	Met	Pro	Asn	Tyr	Thr	Asp	Tyr	Ile	Ser	Thr	Lys	Val	Phe	
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Asp	Arg	Leu	Tyr	Glu	Leu	Leu	Asp	Lys	Gly	Val	Leu	Thr	Asp	Lys	Pro	

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Val Ile Glu Gln Ile Met Asp Met Met Val Asp His Lys Lys Phe Tyr 930 935 940		
Phe Thr Phe Phe Asn Lys Gly Gln Lys Thr Ser Lys Asp Arg Glu Ile 945 950 955 960		
Phe Val Gly Glu Tyr Glu Ala Lys Met Cys Met Tyr Ala Val Glu Arg 965 970 975		
Ile Ala Lys Glu Arg Cys Lys Leu Asn Pro Asp Glu Met Ile Ser Glu 980 985 990		
Pro Gly Asp Gly Lys Leu Lys Val Leu Glu Gln Lys Ser Glu Gln Glu 995 1000 1005		
Ile Arg Phe Leu Val Glu Thr Thr Arg Gln Lys Asn Arg Glu Ile 1010 1015 1020		
Asp Glu Ala Ile Glu Ala Leu Ala Ala Glu Gly Tyr Glu Ser Asn 1025 1030 1035		
Leu Glu Lys Ile Glu Lys Leu Ser Leu Gly Lys Ala Lys Gly Leu 1040 1045 1050		
Lys Met Glu Ile Asn Ala Asp Met Ser Lys Trp Ser Ala Gln Asp 1055 1060 1065		
Val Phe Tyr Lys Tyr Phe Trp Leu Ile Ala Leu Asp Pro Ile Leu 1070 1075 1080		
Tyr Pro Gln Glu Lys Glu Arg Ile Leu Tyr Phe Met Cys Asn Tyr 1085 1090 1095		
Met Asp Lys Glu Leu Ile Leu Pro Asp Glu Leu Leu Phe Asn Leu 1100 1105 1110		
Leu Asp Gln Lys Val Ala Tyr Gln Asn Asp Ile Ile Ala Thr Met 1115 1120 1125		
Thr Asn Gln Leu Asn Ser Asn Thr Val Leu Ile Lys Arg Asn Trp 1130 1135 1140		
Leu Gln Gly Asn Phe Asn Tyr Thr Ser Ser Tyr Val His Ser Cys 1145 1150 1155		
Ala Met Ser Val Tyr Lys Glu Ile Leu Lys Glu Ala Ile Thr Leu 1160 1165 1170		
Leu Asp Gly Ser Ile Leu Val Asn Ser Leu Val His Ser Asp Asp 1175 1180 1185		
Asn Gln Thr Ser Ile Thr Ile Val Gln Asp Lys Met Glu Asn Asp 1190 1195 1200		

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Thr	Phe	Gly	Cys	Gln	Ala	Asn	Met	Lys	Lys	Thr	Tyr	Val	Thr	Asn
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Cys	Ile	Lys	Glu	Phe	Val	Ser	Leu	Phe	Asn	Leu	Tyr	Gly	Glu	Pro
1235						1240					1245			
Phe	Ser	Ile	Tyr	Gly	Arg	Phe	Leu	Leu	Thr	Ser	Val	Gly	Asp	Cys
1250						1255					1260			
Ala	Tyr	Ile	Gly	Pro	Tyr	Glu	Asp	Leu	Ala	Ser	Arg	Ile	Ser	Ser
1265						1270					1275			
Ala	Gln	Thr	Ala	Ile	Lys	His	Gly	Cys	Pro	Pro	Ser	Leu	Ala	Trp
1280						1285					1290			
Val	Ser	Ile	Ala	Ile	Ser	His	Trp	Met	Thr	Ser	Leu	Thr	Tyr	Asn
1295						1300					1305			
Met	Leu	Pro	Gly	Gln	Ser	Asn	Asp	Pro	Ile	Asp	Tyr	Phe	Pro	Ala
1310						1315					1320			
Glu	Asn	Arg	Lys	Asp	Ile	Pro	Ile	Glu	Leu	Asn	Gly	Val	Leu	Asp
1325						1330					1335			
Ala	Pro	Leu	Ser	Met	Ile	Ser	Thr	Val	Gly	Leu	Glu	Ser	Gly	Asn
1340						1345					1350			
Leu	Tyr	Phe	Leu	Ile	Lys	Leu	Leu	Ser	Lys	Tyr	Thr	Pro	Val	Met
1355						1360					1365			
Gln	Lys	Arg	Glu	Ser	Val	Val	Asn	Gln	Ile	Ala	Glu	Val	Lys	Asn
1370						1375					1380			
Trp	Lys	Val	Glu	Asp	Leu	Thr	Asp	Asn	Glu	Ile	Phe	Arg	Leu	Lys
1385						1390					1395			
Ile	Leu	Arg	Tyr	Leu	Val	Leu	Asp	Ala	Glu	Met	Asp	Pro	Ser	Asp
1400						1405					1410			
Ile	Met	Gly	Glu	Thr	Ser	Asp	Met	Arg	Gly	Arg	Ser	Ile	Leu	Thr
1415						1420					1425			
Pro	Arg	Lys	Phe	Thr	Thr	Ala	Gly	Ser	Leu	Arg	Lys	Leu	Tyr	Ser
1430						1435					1440			
Phe	Ser	Lys	Tyr	Gln	Asp	Arg	Leu	Ser	Ser	Pro	Gly	Gly	Met	Val
1445						1450					1455			
Glu	Leu	Phe	Thr	Tyr	Leu	Leu	Glu	Lys	Pro	Glu	Leu	Leu	Val	Thr
1460						1465					1470			

Lys Gly	Glu Asp Met Lys Asp	Tyr Met Glu Ser Val	Ile Phe Arg
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Tyr Asn	Ser Lys Arg Phe Lys	Glu Ser Leu Ser Ile	Gln Asn Pro
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Ala Gln	Leu Phe Ile Glu Gln	Ile Leu Phe Ser His	Lys Pro Ile
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Ile Asp	Phe Ser Gly Ile Arg	Asp Lys Tyr Ile Asn	Leu His Asp
1520	1525	1530	
Ser Arg	Ala Leu Glu Lys Glu	Pro Asp Ile Leu Gly	Lys Val Thr
1535	1540	1545	
Phe Thr	Glu Ala Tyr Arg Leu	Leu Met Arg Asp Leu	Ser Ser Leu
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Glu Leu	Thr Asn Asp Asp Ile	Gln Val Ile Tyr Ser	Tyr Ile Ile
1565	1570	1575	
Leu Asn	Asp Pro Met Met Ile	Thr Ile Ala Asn Thr	His Ile Leu
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Ser Ile	Tyr Gly Ser Pro Gln	Arg Arg Met Gly Met	Ser Cys Ser
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Thr Met	Pro Glu Phe Arg Asn	Leu Lys Leu Ile His	His Ser Pro
1610	1615	1620	
Ala Leu	Val Leu Arg Ala Tyr	Ser Lys Asn Asn Pro	Asp Ile Gln
1625	1630	1635	
Gly Ala	Asp Pro Thr Glu Met	Ala Arg Asp Leu Val	His Leu Lys
1640	1645	1650	
Glu Phe	Val Glu Asn Thr Asn	Leu Glu Glu Lys Met	Lys Val Arg
1655	1660	1665	
Ile Ala	Ile Asn Glu Ala Glu	Lys Gly Gln Arg Asp	Ile Val Phe
1670	1675	1680	
Glu Leu	Lys Glu Met Thr Arg	Phe Tyr Gln Val Cys	Tyr Glu Tyr
1685	1690	1695	
Val Lys	Ser Thr Glu His Lys	Ile Lys Val Phe Ile	Leu Pro Thr
1700	1705	1710	
Lys Ser	Tyr Thr Thr Thr Asp	Phe Cys Ser Leu Met	Gln Gly Asn
1715	1720	1725	
Leu Ile	Lys Asp Lys Glu Trp	Tyr Thr Val His Tyr	Leu Lys Gln
1730	1735	1740	
Ile Leu	Ser Gly Gly His Lys	Ala Ile Met Gln His	Asn Ala Thr

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Phe Ala Asp Ser Phe Ile Asp	Ser Leu Ser Arg Ser Ala Phe Leu			
1775	1780		1785	
Gln Leu Ile Ile Asp Glu Phe	Ser Tyr Lys Asp Val Lys Val Ser			
1790	1795		1800	
Lys Leu Tyr Asp Ile Ile Lys	Asn Gly Tyr Asn Arg Thr Asp Phe			
1805	1810		1815	
Ile Pro Leu Leu Phe Arg Thr	Gly Asp Leu Arg Gln Ala Asp Leu			
1820	1825		1830	
Asp Lys Tyr Asp Ala Met Lys	Ser His Glu Arg Val Thr Trp Asn			
1835	1840		1845	
Asp Trp Gln Thr Ser Arg His	Leu Asp Met Gly Ser Ile Asn Leu			
1850	1855		1860	
Thr Ile Thr Gly Tyr Asn Arg	Ser Ile Thr Ile Ile Gly Glu Asp			
1865	1870		1875	
Asn Lys Leu Thr Tyr Ala Glu	Leu Cys Leu Thr Arg Lys Thr Pro			
1880	1885		1890	
Glu Asn Ile Thr Ile Ser Gly	Arg Lys Leu Leu Gly Ala Arg His			
1895	1900		1905	
Gly Leu Lys Phe Glu Asn Met	Ser Lys Ile Gln Thr Tyr Pro Gly			
1910	1915		1920	
Asn Tyr Tyr Ile Thr Tyr Arg	Lys Lys Asp Arg His Gln Phe Val			
1925	1930		1935	
Tyr Gln Ile His Ser His Glu	Ser Ile Thr Arg Arg Asn Glu Glu			
1940	1945		1950	
His Met Ala Ile Arg Thr Arg	Ile Tyr Asn Glu Ile Thr Pro Val			
1955	1960		1965	
Cys Val Val Asn Val Ala Glu	Val Asp Gly Asp Gln Arg Ile Leu			
1970	1975		1980	
Ile Arg Ser Leu Asp Tyr Leu	Asn Asn Asp Ile Phe Ser Leu Ser			
1985	1990		1995	
Arg Ile Lys Val Gly Leu Asp	Glu Phe Ala Thr Ile Lys Lys Ala			
2000	2005		2010	
His Phe Ser Lys Met Val Ser	Phe Glu Gly Pro Pro Ile Lys Thr			
2015	2020		2025	

Gly	Leu	Leu	Asp	Leu	Thr	Glu	Leu	Met	Lys	Ser	Gln	Asp	Leu	Leu
2030						2035					2040			
Asn	Leu	Asn	Tyr	Asp	Asn	Ile	Arg	Asn	Ser	Asn	Leu	Ile	Ser	Phe
2045						2050					2055			
Ser	Lys	Leu	Ile	Cys	Cys	Glu	Gly	Ser	Asp	Asn	Ile	Asn	Asp	Gly
2060						2065					2070			
Leu	Glu	Phe	Leu	Ser	Asp	Asp	Pro	Met	Asn	Phe	Thr	Glu	Gly	Glu
2075						2080					2085			
Ala	Ile	His	Ser	Thr	Pro	Ile	Phe	Asn	Ile	Tyr	Tyr	Ser	Lys	Arg
2090						2095					2100			
Gly	Glu	Arg	His	Met	Thr	Tyr	Arg	Asn	Ala	Ile	Lys	Leu	Leu	Ile
2105						2110					2115			
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2120						2125					2130			
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2135						2140					2145			
Val	Ser	Leu	Ile	Lys	Leu	Leu	Lys	Thr	Asn	Glu	Trp	Ser	Thr	Val
2150						2155					2160			
Ile	Asp	Lys	Cys	Ile	His	Ile	Cys	Leu	Ile	Lys	Asn	Gly	Met	Asp
2165						2170					2175			
His	Met	Tyr	His	Ser	Phe	Asp	Val	Pro	Lys	Cys	Phe	Met	Gly	Asn
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Pro	Ile	Thr	Arg	Asp	Met	Asn	Trp	Met	Met	Phe	Arg	Glu	Phe	Ile
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Glu	Asn	Phe	Lys	Lys	Lys	Cys	Ile	Ala	Leu	Ile	Asn	Ser	Lys	Leu
2225						2230					2235			
Glu	Thr	Gln	Arg	Asp	Phe	Ser	Glu	Phe	Thr	Lys	Leu	Met	Lys	Lys
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 <213> Artificial Sequence

<220>
 <223> Antisense primer derived from M segment of LACV genome

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<210> 8
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 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 8
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<210> 9
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 <212> DNA
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<220>
 <223> Probe derived from M segment of LACV genome

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<210> 10
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<220>
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 <223> Antisense primer derived from S segment of LACV genome

<400> 11
 aatggtcagc gggtagaatt tg 22

<210>	12	
<211>	25	
<212>	DNA	
<213>	Artificial Sequence	
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<223>	Probe derived from S segment of LACV genome	
<400>	12	
	tggtgtagga tgggacagtg ggcca	25
<210>	13	
<211>	21	
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<213>	Artificial Sequence	
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<223>	Sense primer derived from L segment of LACV genome	
<400>	13	
	aaagtcgggc ttgacgaatt t	21
<210>	14	
<211>	23	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Antisense primer derived from L segment of LACV genome	
<400>	14	
	cggacagaaa ctctaacccta tca	23
<210>	15	
<211>	25	
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<213>	Artificial Sequence	
<220>		
<223>	Probe derived from L segment of LACV genome	
<400>	15	
	cccccaatta agacagggt cctcg	25
<210>	16	
<211>	25	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Synthetic oligonucleotide specific for LACV sequence	

<400> 16
catgagcat tcaaattagg ttcta

25

<210> 17
<211> 174
<212> PRT
<213> La Crosse virus

<400> 17
Val Met Cys Lys Ser Lys Gly Pro Ala Ser Ile Leu Ser Ile Ile Thr
1 5 10 15
Ala Val Leu Val Leu Thr Phe Val Thr Pro Ile Asn Ser Met Val Leu
20 25 30
Gly Glu Ser Lys Glu Thr Phe Glu Leu Glu Asp Leu Pro Asp Asp Met
35 40 45
Leu Glu Met Ala Ser Arg Ile Asn Ser Tyr Tyr Leu Thr Cys Ile Leu
50 55 60
Asn Tyr Ala Val Ser Trp Gly Leu Val Ile Ile Gly Leu Leu Ile Gly
65 70 75 80
Leu Leu Phe Lys Lys Tyr Gln His Arg Phe Leu Asn Val Tyr Ala Met
85 90 95
Tyr Cys Glu Glu Cys Asp Met Tyr His Asp Lys Ser Gly Leu Lys Arg
100 105 110
His Gly Asp Phe Thr Asn Lys Cys Arg Gln Cys Thr Cys Gly Gln Tyr
115 120 125
Glu Asp Ala Ala Gly Leu Met Ala His Arg Lys Thr Tyr Asn Cys Leu
130 135 140
Val Gln Tyr Lys Ala Lys Trp Met Met Asn Phe Leu Ile Ile Tyr Ile
145 150 155 160
Phe Leu Ile Leu Ile Lys Asp Ser Ala Ile Val Val Gln Ala
165 170

<210> 18
<211> 968
<212> PRT
<213> La Crosse virus

<400> 18
Ala Gly Thr Asp Phe Thr Thr Cys Leu Glu Thr Glu Ser Ile Asn Trp
1 5 10 15
Asn Cys Thr Gly Pro Phe Leu Asn Leu Gly Asn Cys Gln Lys Gln Gln

20					25					30						
Lys	Lys	Glu	Pro	Tyr	Thr	Asn	Ile	Ala	Thr	Gln	Leu	Lys	Gly	Leu	Lys	
35					40					45						
Ala	Ile	Ser	Val	Leu	Asp	Val	Pro	Ile	Ile	Thr	Gly	Ile	Pro	Asp	Asp	
50					55					60						
Ile	Ala	Gly	Ala	Leu	Arg	Tyr	Ile	Glu	Glu	Lys	Glu	Asp	Phe	His	Val	
65					70					75					80	
Gln	Leu	Thr	Ile	Glu	Tyr	Ala	Met	Leu	Ser	Lys	Tyr	Cys	Asp	Tyr	Tyr	
85					90					95						
Thr	Gln	Phe	Ser	Asp	Asn	Ser	Gly	Tyr	Ser	Gln	Thr	Thr	Trp	Arg	Val	
100					105					110						
Tyr	Leu	Arg	Ser	His	Asp	Phe	Glu	Ala	Cys	Ile	Leu	Tyr	Pro	Asn	Gln	
115					120					125						
His	Phe	Cys	Arg	Cys	Val	Lys	Asn	Gly	Glu	Lys	Cys	Ser	Ser	Ser	Asn	
130					135					140						
Trp	Asp	Phe	Ala	Asn	Glu	Met	Lys	Asp	Tyr	Tyr	Ser	Gly	Lys	Gln	Thr	
145					150					155					160	
Lys	Phe	Asp	Lys	Asp	Leu	Asn	Leu	Ala	Leu	Thr	Ala	Leu	His	His	Ala	
165					170					175						
Phe	Arg	Gly	Thr	Ser	Ser	Ala	Tyr	Ile	Ala	Thr	Met	Leu	Ser	Lys	Lys	
180					185					190						
Ser	Asn	Asp	Asp	Leu	Ile	Ala	Tyr	Thr	Asn	Lys	Ile	Lys	Thr	Lys	Phe	
195					200					205						
Pro	Gly	Asn	Ala	Leu	Leu	Lys	Ala	Ile	Ile	Asp	Tyr	Ile	Ala	Tyr	Met	
210					215					220						
Lys	Ser	Leu	Pro	Gly	Met	Ala	Asn	Phe	Lys	Tyr	Asp	Glu	Phe	Trp	Asp	
225					230					235					240	
Glu	Leu	Leu	Tyr	Lys	Pro	Asn	Pro	Ala	Lys	Ala	Ser	Asn	Leu	Ala	Arg	
245					250					255						
Gly	Lys	Glu	Ser	Ser	Tyr	Asn	Phe	Lys	Leu	Ala	Ile	Ser	Ser	Lys	Ser	
260					265					270						
Ile	Lys	Thr	Cys	Lys	Asn	Val	Lys	Asp	Val	Ala	Cys	Leu	Ser	Pro	Arg	
275					280					285						
Ser	Gly	Ala	Ile	Tyr	Ala	Ser	Ile	Ile	Ala	Cys	Gly	Glu	Pro	Asn	Gly	
290					295					300						
Pro	Ser	Val	Tyr	Arg	Lys	Pro	Ser	Gly	Gly	Val	Phe	Gln	Ser	Ser	Thr	
305					310					315					320	

Asp	Arg	Ser	Ile	Tyr	Cys	Leu	Leu	Asp	Ser	His	Cys	Leu	Glu	Glu	Phe	325	330	335	
Glu	Ala	Ile	Gly	Gln	Glu	Glu	Leu	Asp	Ala	Val	Lys	Lys	Ser	Lys	Cys	340	345	350	
Trp	Glu	Ile	Glu	Tyr	Pro	Asp	Val	Lys	Leu	Ile	Gln	Glu	Gly	Asp	Gly	355	360	365	
Thr	Lys	Ser	Cys	Arg	Met	Lys	Asp	Ser	Gly	Asn	Cys	Asn	Val	Ala	Thr	370	375	380	
Asn	Arg	Trp	Pro	Val	Ile	Gln	Cys	Glu	Asn	Asp	Lys	Phe	Tyr	Tyr	Ser	385	390	400	
Glu	Leu	Gln	Lys	Asp	Tyr	Asp	Lys	Ala	Gln	Asp	Ile	Gly	His	Tyr	Cys	405	410	415	
Leu	Ser	Pro	Gly	Cys	Thr	Thr	Val	Arg	Tyr	Pro	Ile	Asn	Pro	Lys	His	420	425	430	
Ile	Ser	Asn	Cys	Asn	Trp	Gln	Val	Ser	Arg	Ser	Ser	Ile	Ala	Lys	Ile	435	440	445	
Asp	Val	His	Asn	Ile	Glu	Asp	Ile	Glu	Gln	Tyr	Lys	Lys	Ala	Ile	Thr	450	455	460	
Gln	Lys	Leu	Gln	Thr	Ser	Leu	Ser	Leu	Phe	Lys	Tyr	Ala	Lys	Thr	Lys	465	470	475	480
Asn	Leu	Pro	His	Ile	Lys	Pro	Ile	Tyr	Lys	Tyr	Ile	Thr	Ile	Glu	Gly	485	490	495	
Thr	Glu	Thr	Ala	Glu	Gly	Ile	Glu	Ser	Ala	Tyr	Ile	Glu	Ser	Glu	Val	500	505	510	
Pro	Ala	Leu	Ala	Gly	Thr	Ser	Ile	Gly	Phe	Lys	Ile	Asn	Ser	Lys	Glu	515	520	525	
Gly	Lys	His	Leu	Leu	Asp	Val	Ile	Ala	Tyr	Val	Lys	Ser	Ala	Ser	Tyr	530	535	540	
Ser	Ser	Val	Tyr	Thr	Lys	Leu	Tyr	Ser	Thr	Gly	Pro	Thr	Ser	Gly	Ile	545	550	555	560
Asn	Thr	Lys	His	Asp	Glu	Leu	Cys	Thr	Gly	Pro	Cys	Pro	Ala	Asn	Ile	565	570	575	
Asn	His	Gln	Val	Gly	Trp	Leu	Thr	Phe	Ala	Arg	Glu	Arg	Thr	Ser	Ser	580	585	590	
Trp	Gly	Cys	Glu	Glu	Phe	Gly	Cys	Leu	Ala	Val	Ser	Asp	Gly	Cys	Val	595	600	605	

Phe	Gly	Ser	Cys	Gln	Asp	Ile	Ile	Lys	Glu	Glu	Leu	Ser	Val	Tyr	Arg	610	615	620
Lys	Glu	Thr	Glu	Glu	Val	Thr	Asp	Val	Glu	Leu	Cys	Leu	Thr	Phe	Ser	625	630	635
Asp	Lys	Thr	Tyr	Cys	Thr	Asn	Leu	Asn	Pro	Val	Thr	Pro	Ile	Ile	Thr	645	650	655
Asp	Leu	Phe	Glu	Val	Gln	Phe	Lys	Thr	Val	Glu	Thr	Tyr	Ser	Leu	Pro	660	665	670
Arg	Ile	Val	Ala	Val	Gln	Asn	His	Glu	Ile	Lys	Ile	Gly	Gln	Ile	Asn	675	680	685
Asp	Leu	Gly	Val	Tyr	Ser	Lys	Gly	Cys	Gly	Asn	Val	Gln	Lys	Val	Asn	690	695	700
Gly	Thr	Ile	Tyr	Gly	Asn	Gly	Val	Pro	Arg	Phe	Asp	Tyr	Leu	Cys	His	705	710	715
Leu	Ala	Ser	Arg	Lys	Glu	Val	Ile	Val	Arg	Lys	Cys	Phe	Asp	Asn	Asp	725	730	735
Tyr	Gln	Ala	Cys	Lys	Phe	Leu	Gln	Ser	Pro	Ala	Ser	Tyr	Arg	Leu	Glu	740	745	750
Glu	Asp	Ser	Gly	Thr	Val	Thr	Ile	Ile	Asp	Tyr	Lys	Lys	Ile	Leu	Gly	755	760	765
Thr	Ile	Lys	Met	Lys	Ala	Ile	Leu	Gly	Asp	Val	Lys	Tyr	Lys	Thr	Phe	770	775	780
Ala	Asp	Ser	Val	Asp	Ile	Thr	Ala	Glu	Gly	Ser	Cys	Thr	Gly	Cys	Ile	785	790	795
Asn	Cys	Phe	Glu	Asn	Ile	His	Cys	Glu	Leu	Thr	Leu	His	Thr	Thr	Ile	805	810	815
Glu	Ala	Ser	Cys	Pro	Ile	Lys	Ser	Ser	Cys	Thr	Val	Phe	His	Asp	Arg	820	825	830
Ile	Leu	Val	Thr	Pro	Asn	Glu	His	Lys	Tyr	Ala	Leu	Lys	Met	Val	Cys	835	840	845
Thr	Glu	Lys	Pro	Gly	Asn	Thr	Leu	Thr	Ile	Lys	Val	Cys	Asn	Thr	Lys	850	855	860
Val	Glu	Ala	Ser	Met	Ala	Leu	Val	Asp	Ala	Lys	Pro	Ile	Ile	Glu	Leu	865	870	875
Ala	Pro	Val	Asp	Gln	Thr	Ala	Tyr	Ile	Arg	Glu	Lys	Asp	Glu	Arg	Cys	885	890	895
Lys	Thr	Trp	Met	Cys	Arg	Val	Arg	Asp	Glu	Gly	Leu	Gln	Val	Ile	Leu			

900	905	910
Glu Pro Phe Lys Asn Leu Phe Gly Ser Tyr Ile Gly Ile Phe Tyr Thr		
915	920	925
Phe Ile Ile Ser Ile Val Val Leu Leu Val Ile Ile Tyr Val Leu Leu		
930	935	940
Pro Ile Cys Phe Lys Leu Arg Asp Thr Leu Arg Lys His Glu Asp Ala		
945	950	955
		960
Tyr Lys Arg Glu Met Lys Ile Arg		
965		

<210> 19
 <211> 92
 <212> PRT
 <213> La Crosse virus

<400> 19
 Met Met Ser His Gln Gln Val Gln Met Asp Leu Ile Leu Met Gln Gly
 1 5 10 15
 Ile Trp Thr Ser Val Leu Lys Met Gln Asn Tyr Ser Thr Leu Leu Gln
 20 25 30
 Leu Gly Ser Ser Ser Met Pro Gln Arg Pro Arg Leu Leu Ser Arg
 35 40 45
 Val Ser Gln Arg Gly Arg Leu Thr Leu Asn Leu Glu Ser Gly Arg Trp
 50 55 60
 Arg Leu Ser Ile Ile Ile Phe Leu Glu Thr Gly Thr Thr Gln Leu Val
 65 70 75 80
 Thr Thr Ile Leu Pro Ser Thr Asp Tyr Leu Gly Ile
 85 90

<210> 20
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Forward primer derived from M segment of the LACV genome

<400> 20
 ttgtacaagc tgctggaact gactt

25

<210> 21
 <211> 22
 <212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from M segment of the LACV genome

<400> 21

tgtggtgccc gctatgatac tt

22

<210> 22

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from M segment of the LACV genome

<400> 22

tgtggtgccc gctatgatac

20

<210> 23

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from M segment of the LACV genome

<400> 23

ctgtggtgcc cgctatgata c

21

<210> 24

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from M segment of the LACV genome

<400> 24

ctgtggtgcc cgctatgata

20

<210> 25

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from M segment of the LACV genome

<400> 25

tctgtggtgc ccgctatgat a

21

<210> 26
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Forward primer derived from M segment of the LACV genome

 <400> 26
 tctgtggtgc ccgctatgat 20

 <210> 27
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Forward primer derived from M segment of the LACV genome

 <400> 27
 gtgtctgtgg tgcccgctat 20

 <210> 28
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Forward primer derived from M segment of the LACV genome

 <400> 28
 agacagtggc actgtgacca taa 23

 <210> 29
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Forward primer derived from M segment of the LACV genome

 <400> 29
 agacagtggc actgtgacca taat 24

 <210> 30
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Forward primer derived from M segment of the LACV genome

<400> 30
 aagacagtgg cactgtgacc ata 23

<210> 31
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Forward primer derived from M segment of the LACV genome

<400> 31
 aagacagtgg cactgtgacc ataa 24

<210> 32
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Forward primer derived from M segment of the LACV genome

<400> 32
 aagacagtgg cactgtgacc ataata 25

<210> 33
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Forward primer derived from M segment of the LACV genome

<400> 33
 gaagacagtg gcactgtgac cata 24

<210> 34
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Forward primer derived from M segment of the LACV genome

<400> 34
 agaagacagt ggcactgtga ccata 25

<210>	35	
<211>	25	
<212>	DNA	
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<223>	Probe derived from M segment of the LACV genome	
<400>	35	
	ctggggccatt tttgaacctc gggaa	25
<210>	36	
<211>	24	
<212>	DNA	
<213>	Artificial Sequence	
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<223>	Probe derived from M segment of the LACV genome	
<400>	36	
	ctggggccatt tttgaacctc ggga	24
<210>	37	
<211>	24	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Probe derived from M segment of the LACV genome	
<400>	37	
	cactggggcca tttttgaacc tcgg	24
<210>	38	
<211>	23	
<212>	DNA	
<213>	Artificial Sequence	
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<223>	Probe derived from M segment of the LACV genome	
<400>	38	
	ctggggccatt tttgaacctc ggg	23
<210>	39	
<211>	25	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Probe derived from M segment of the LACV genome	

<400> 39
tgaacctcgg gaattgccaa aagca 25

<210> 40
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 40
tgcaactgggc catttttgaa cctcg 25

<210> 41
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 41
actgggcat ttttgaacct cggga 25

<210> 42
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 42
actgggcat ttttgaacct cggg 24

<210> 43
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 43
tgggccattt ttgaacctcg gga 23

<210> 44
<211> 25

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from M segment of the LACV genome

 <400> 44
 tgggccattt ttgaacctcg ggaat 25

 <210> 45
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from M segment of the LACV genome

 <400> 45
 cactgggccca tttttgaacc tcggg 25

 <210> 46
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from M segment of the LACV genome

 <400> 46
 tgggccattt ttgaacctcg ggaa 24

 <210> 47
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from M segment of the LACV genome

 <400> 47
 tgtgcaagtc gaaagggcct gca 23

 <210> 48
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from M segment of the LACV genome

 <400> 48

catgtgcaag tcgaaagggc ctgc 24

<210> 49
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 49
tcatgtgcaa gtcgaaaggg cctg 24

<210> 50
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 50
atgtgcaagt cgaaagggcc tgca 24

<210> 51
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 51
tcatgtgcaa gtcgaaaggg cctgc 25

<210> 52
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 52
taaccgcaga agggtcatgc accg 24

<210> 53
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
 <223> Probe derived from M segment of the LACV genome

<400> 53
 ccgcagaagg gtcatgcacc g 21

<210> 54
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe derived from M segment of the LACV genome

<400> 54
 aaccgcagaa gggatcatgca ccg 23

<210> 55
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe derived from M segment of the LACV genome

<400> 55
 ataaccgcag aaggatcatg caccg 25

<210> 56
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe derived from M segment of the LACV genome

<400> 56
 accgcagaag ggtcatgcac cg 22

<210> 57
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe derived from M segment of the LACV genome

<400> 57
 cagaagggtc atgcaccggc tgt 23

<210> 58
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from M segment of the LACV genome

 <400> 58
 cgcagaaggg tcatgcaccg g 21

 <210> 59
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Reverse primer derived from M segment of the LACV genome

 <400> 59
 agtcccttta actgagttgc aatgt 25

 <210> 60
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Reverse primer derived from M segment of the LACV genome

 <400> 60
 aaggттаага ccagtaccgc agtaa 25

 <210> 61
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Reverse primer derived from M segment of the LACV genome

 <400> 61
 gtgtgcaacg ttaattcgca at 22

 <210> 62
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>

<223> Reverse primer derived from M segment of the LACV genome

<400> 62

tgtggtgtgc aacgttaatt cg

22

<210> 63

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer derived from M segment of the LACV genome

<400> 63

tcaattgtgg tgtgcaacgt ta

22

<210> 64

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer derived from M segment of the LACV genome

<400> 64

tcaattgtgg tgtgcaacgt taa

23

<210> 65

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer derived from M segment of the LACV genome

<400> 65

tcaattgtgg tgtgcaacgt t

21

<210> 66

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer derived from M segment of the LACV genome

<400> 66

tcaattgtgg tgtgcaacgt taat

24

<210> 67


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<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 67
tctcagcacg agttgatcag aac 23

<210> 68
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 68
ctcagcacga gttgatcaga aca 23

<210> 69
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 69
tcagcacgag ttgatcagaa caa 23

<210> 70
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 70
tctaccgct gaccattgga at 22

<210> 71
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

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<400> 71
gagtgtgatg tcggatttgg tggt 24

<210> 72
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 72
agtctcagca cgagttgatc agaa 24

<210> 73
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 73
gtctcagcac gagttgatca gaac 24

<210> 74
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 74
tctcagcacg agttgatcag aaca 24

<210> 75
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 75
ctcagcacga gttgatcaga acaa 24

<210> 76
<211> 22
<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from the S segment of the LACV genome

<400> 76

tcagcacgag ttgatcagaa ca

22

<210> 77

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from the S segment of the LACV genome

<400> 77

tctaccgct gaccattgga a

21

<210> 78

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

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<400> 78

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<210> 126

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22

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22

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23

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23

<210> 177


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24

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25

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24

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